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# TWENTY-EIGHTH ANNUAL MEETING.

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## PROCEEDINGS.

The Kansas Academy of Science convened for the twenty-eighth meeting in the lecture room of Snow Hall, Kansas University, Lawrence, January 2, 1896, at 3 p. m. President Knaus in the chair.

The secretary called the roll, and the following members responded to their names: E. B. Knerr, Warren Knaus, D. E. Lantz, E. C. Murphy, E. Miller, L. E. Sayre, F. H. Snow, T. H. Dinsmore, jr., W. A. Snow, D. S. Kelly, A. H. Thompson, B. B. Smyth, J. T. Lovewell, E. Haworth, J. T. Willard. A number of visitors were present, and before adjournment other members appeared, having arrived on later trains.

Committees were appointed by President Knaus, as follows:

On program and press: L. E. Sayre, T. H. Dinsmore, jr., W. A. Snow.

On membership: E. C. Murphy, D. S. Kelly, E. Miller.

On resolutions: A. H. Thompson, E. B. Knerr, B. B. Smyth.

On nominations: F. H. Snow, S. W. Williston, J. T. Lovewell.

On time and place for next meeting: E. Haworth, D. E. Lantz, J. T. Willard.

Secretary read the correspondence which had accumulated during the year.

President Knaus made a verbal report on the printing of volume xiv of the Transactions.

In the evening President Knaus delivered the retiring president's address, which was highly appreciated by the members present, inasmuch as the history of the Academy was reviewed, and the more important papers that have thus far been presented were classified and commented upon.

After the president's address was concluded, various topics of a business interest to the Academy were discussed, chiefly relative to the division of the Academy into sections, appropriations by the legislature, the preparation of monographs on the natural resources of Kansas.

A. H. Thompson read a paper (1) "On the publication by the Academy of scientific monographs on the natural resources of Kansas."

On motion, the chair appointed as committee on monographs, A. H. Thompson, E. Haworth, S. W. Williston.

A committee on necrology was appointed, as follows : A. H. Thompson, F. H. Snow, E. B. Knerr.

Chairman Dinsmore, of program committee, announced the program for the next session.

JANUARY 3, 1897.

Academy convened at 9:30 A. M. Secretary read minutes of previous session. Treasurer's report was read, and an auditing committee appointed, consisting of D. E. Lantz, A. H. Thompson, E. B. Knerr.

The membership committee reported a list of applicants; all were duly elected.

The reading of papers was then taken up, and the following heard:

2. Notes on frosted poor-will, D. E. Lantz.
3. Color photography, E. B. Knerr.
4. An improved clinometer, Alva J. Smith.
5. A new theory of the surface markings of the moon, E. Miller.
6. Telephonic communications with light-ships, L. I. Blake.
7. The new elements argon and helium, E. C. Franklin.

The committee on necrology reported that during the year Prof. Robert Hay, Prof. D. H. Robinson and I. B. Ashton had died. Appropriate resolutions were reported, adopted, and entered on the minutes of the Academy.

Adjourned to meet at 2 P. M.

Academy convened at 2:30 P. M. Librarian B. B. Smyth made his annual report, which was duly accepted.

On motion, the librarian was authorized to dispose of 350 copies of the reprint edition of volumes I to III at 50 cents per set, to reimburse the treasury for the expense of the reprint.

Reading of papers was then resumed.

8. An experiment in rain-making, T. H. Dinsmore.
9. A polished glacial rock near Topeka, J. T. Lovewell.
10. Foucault's pendulum experiment, J. T. Lovewell.
11. A new drill hole in Wichita, J. R. Mead.
12. Cone-in-cone structure, H. J. Harnly.
13. Closing of the Michigan glacial lakes, B. B. Smyth.
14. Salt beds of Kansas, M. Z. Kirk. In the absence of the author, this subject was presented by Prof. E. Haworth.
15. The flint hills: an object-lesson in physiography, E. Haworth.
16. Horsebacks in coals of Cherokee and Crawford counties, W. R. Crane.
17. Water storage in Dakota formation in Kansas, S. Z. Sharp.
18. On extinct bison from western Kansas, S. W. Williston.

19. Irrigation in Cheyenne county, W. N. Logan.

The auditing committee reported that they had carefully examined bills, accounts and entries of the treasurer, and found them in every respect as presented in his report. Report received, and the committee discharged.

Committee on nominations reported:

For president, D. S. Kelly, Emporia.

First vice-president, S. W. Williston, Lawrence.

Second vice-president, D. E. Lantz, Manhattan.

Secretary, E. B. Knerr, Atchison.

Treasurer, L. E. Sayre, Lawrence.

Librarian, B. B. Smyth, Topeka.

Curators: A. H. Thompson, Topeka; B. B. Smyth, Topeka; G. P. Grimsley, Topeka.

On motion, the secretary was instructed to cast the vote of the Academy for the above officers.

B. B. Smyth reported that 1,500 bound and 500 unbound copies of volume XIV would be issued by the state.

Dr. L. E. Sayre then presented his paper (20) on "Serum Therapy," in the form of an illustrated lecture with lantern views.

After the lecture by Doctor Sayre, the Academy, by invitation, adjourned to the rooms of the library building, where an hour of pleasant social intercourse was enjoyed, followed by a unique banquet under the hostship of the University science club "It."

JANUARY 4, 9:30 A. M.

Academy convened, with President Knaus in the chair. President elect D. S. Kelly was called to take the chair, and in doing so responded in a fitting address.

Minutes of the previous session were read.

The committee on monographs reported as follows:

Your committee appointed to investigate the matter of publishing scientific monographs by the Academy upon the natural resources of the state desire to submit the following: They would recommend the inauguration of the scheme proposed in the communication by Dr. A. H. Thompson, and to that end recommend the appointment of a committee to carry forward the work of receiving the material for the first volume on geology, to be submitted at the next meeting of the Academy.

A. H. THOMPSON,  
S. W. WILLISTON,  
*Committee.*

The report was adopted, and S. W. Williston, E. Haworth and G. P. Grimsley were appointed a committee to edit the first monograph.

The committee on time and place of next meeting reported in favor of Topeka, and the Christmas holiday week, either immediately before

the meeting of the State Teachers' Association or immediately after; the exact dates to be announced later by the secretary.

The reading of papers was then resumed:

21. Some geometrical theorems, Arnold Emch.
22. Notes on injurious insects, W. A. Snow.
23. Notes on Kansas coleoptera, Warren Knaus.
24. Restoration of saber-toothed cat from White River miocene, E. S. Riggs.
25. A theory of absorption spectra, A. S. Dunstan.
26. Notes on discharge of Kansas river since 1881, E. C. Murphy.
27. Geology of Shawnee county, J. W. Beede.
28. Stratigraphy from Atchison to Washington counties, E. B. Knerr.

The committee on resolutions reported the following, which was adopted:

*Resolved*, That the Kansas Academy of Science express to the faculty of Kansas University and friends their high appreciation of the kindness extended in the generous entertainment of the Academy and visitors; and to the science club sincere thanks for the very acceptable and suitable introduction into the mysteries of the "It."

A. H. THOMPSON,  
B. B. SMYTH,  
E. B. KNERR,  
*Committee.*

At the various sessions of this meeting, the following new members were duly elected: J. W. Stailey, Lawrence; Elam Bartholomew, Rockport; C. N. Gould, Maple City; W. G. Riste, Phillipsburg; C. S. Caldwell, Topeka; T. D. A. Cockerell, Las Cruces, N. M.; H. C. Welty, Topeka; E. E. Tyler, Lincoln, Neb.; T. M. Aderhold, Topeka; Chas. H. Sternberg, Lawrence; G. P. Grimsley, Topeka; W. R. Crane, Lawrence; W. N. Logan, Beloit; J. W. Wilson, Effingham; E. S. Riggs, Lawrence; Barnum Brown, Carbondale; Lottie E. Crary, Council Grove.

On motion, the secretary was authorized to arrange the papers for next year's meeting according to the departments of science of which they treat.

The time for the hearing of papers having expired, the following were ordered, on motion, to be read by title:

29. Notes on the evaporation from soil and sand, E. C. Murphy.
30. Electric resonance in circuits possessing mutual induction, A. S. Dunstan.
31. Simple sounds of the English language, J. H. Carruth.
32. Additions to Goss's Revised Catalogue of Kansas birds, V. L. Kellogg.
33. Germination of *Commelina* and *Tradescantia*, J. B. S. Norton.
34. New fungi, Elam Bartholomew.

35. Coleoptera of Saline county, and notes on habits and distribution, A. W. Jones.

36. Entomological collections of Kansas University, W. A. Snow.

37. On the occurrence in America of the European ortalid genus *Phairoptera*, W. A. Snow.

38. The Dakota formation in western Kansas as a water-bearing terrane, E. Haworth.

39. On the dermal covering of *Hesperornis*, S. W. Williston.

40. Additions to the list of Kansas coleoptera, W. Knaus.

41. Changes in the channel of the Missouri river at Atchison, E. B. Knerr.

42. Tetra-chlor-meta-nitro-benzaldehyde, H. P. Cady.

The Academy then adjourned, to meet at Topeka in accordance with a previous motion.

E. B. KNERR, *Secretary*.